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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/593,140	09/27/2006	Anders Haseth	3067-29PUS	6493
	7590 10/06/201 ΓΑΝΙ, LIEBERMAN &		EXAMINER	
551 FIFTH AV	· · ·		KAMAL, SHAHID	
	SUITE 1210 NEW YORK, NY 10176		ART UNIT	PAPER NUMBER
			3718	
			MAIL DATE	DELIVERY MODE
			10/06/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/593,140	HASETH, ANDERS			
		Examiner	Art Unit			
		SHAHID KAMAL	3714			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
WHIC - Exter after - If NC - Failu Any I	CRTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in the may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 66(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	Lely filed the mailing date of this communication. O (35 U.S.C. § 133).			
Status						
1) 又	Responsive to communication(s) filed on 14 Ju	ilv 2010.				
· · · · · · · · · · · · · · · · · · ·	This action is FINAL . 2b) ☐ This action is non-final.					
<i>,</i> —	'-					
- /	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims	• • •				
•	Claim(s) <u>1-32</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
·	Claim(s) is/are allowed.					
	Claim(s) <u>1-30 and 32</u> is/are rejected.					
	Claim(s) <u>31</u> is/are objected to.					
8)[_]	Claim(s) are subject to restriction and/or	election requirement.				
Applicati	on Papers					
9)☐ The specification is objected to by the Examiner.						
10)	The drawing(s) filed on is/are: a)∏ acce	epted or b) \square objected to by the ${ t E}$	Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority ι	ınder 35 U.S.C. § 119					
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachmen	t(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:						
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DETAILED ACTION

Acknowledgements

- 1. This Office Action is in responsive to the amendment filed on July 14, 2010.
- 2. Claims 1-32 are remain pending and have been examined.

Allowable Subject Matter

3. Claim 31 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Abstract

- 4. Applicant is reminded of the proper language and format for an abstract of the disclosure.
- 5. The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Claim Rejections - 35 USC § 112

- 6. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 7. Claims 1-32 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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8. Regarding claim 1, the phrase "such as" and "the like" renders the claim(s) indefinite because it is not clear what the phrase "such as" and "the like" means.

Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. Claims 1-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Christopher (GB2323297) ("Christopher") in view of Kustanovich (US Patent No.: 4,659,090) ("Kustanovich").
- 11. Referring to claim 1, Christopher discloses the following:

the underneath side of the outer layer of the sheet or mat (graphics sheet 18) is provided with a first pattern of electrically conductive elements at least at the positions of the pressure sensitive switches (see abstract; page 3, lines 8-18),

the upper side of the inner layer of said sheet or mat is provided with a second pattern of electrically conductive elements at least at the positions of the pressure sensitive switches (see fig. 2; page 3, lines 20-30),

the first pattern of electrically conductive elements and the second pattern of electrically conductive elements are arranged so as to enable temporary contact to be established at the positions of the pressure sensitive switches (see page 2, lines 14-19),

an insulation layer between said outer and inner layers is provided with cavities or holes at the positions of the pressure sensitive switches for establishing temporary contact therein, and from each cavity or hole at least one opening directed sideways for air movement during said impact or pressure activation (see abstract; page 3, lines 8-18).

Christopher does not expressly discloses at least one of the first and second patterns of electrically conductive elements is subdivided into a number of individual zones where each zone comprises a plurality of said pressure sensitive switches and the electronic circuits have separate connections to each of said individual zones.

Kustanovich discloses at least one of the first and second patterns of electrically conductive elements is subdivided into a number of individual zones where each zone comprises a plurality of said pressure sensitive switches and the electronic circuits have separate connections to each of said individual zones (see col. 1, lines 21-42; col. 3, lines 29-42).

Therefore, at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to have modified of Christopher for sports training or practice apparatus with the features of Kustanovich for a electrical device for indicating the force and/or location of target impacts or other forces in order to provide an electrical indication of the force of impact as well as the location of impact.

12. Referring to claim 2, Christopher further discloses wherein the character and/or the thickness of the insulation layer determine(s) the detection sensitivity (see abstract; page 3, lines 8-18).

- 13. Referring to claim 3, Christopher further discloses wherein the second pattern of electrically conductive elements is applied on an upward surface of an inner support layer joined with the inner layer (see fig. 2).
- 14. Referring to claim 4, Christopher further discloses intended for use with a moveable object, in particular in the form of a ball, having a given size, wherein said positions of the pressure sensitive switches are mutually spaced in such a way that the ball or the object by impact or pressure will activate at least two pressure sensitive switches (see fig. 2; page 3, lines 20-30).
- 15. Referring to claim 5, Christopher further discloses wherein said first and/or said second pattern of electrically conductive elements are/is formed by printed circuit elements (see page 5, lines 7-11).
- 16. Referring to claim 6, Christopher further discloses wherein the outer layer of the sheet or mat is further provided with a hollow and flexible, dome-shaped protrusion at each position of the pressure sensitive switches each zone comprising a number of protrusions (see fig. 2).
- 17. Referring to claim 7, Christopher further discloses wherein said hollow and flexible protrusions inherently provides for a sufficient degree of elastic deformation when activated by said impact or pressure, which also affects the degree of detection accuracy (see page 3, lines 20-30).

- 18. Referring to claim 8, Christopher further discloses wherein said hollow and flexible protrusions are further provided with spring elements, preferably of metal, for obtaining a sufficient degree of elastic deformation when activated by said impact or pressure (see page 2, lines 21-27).
- 19. <u>Referring to claim 9</u>, Christopher further discloses wherein the shape of said protrusions is substantially circular as seen in plan view (see page 2, lines 14-19).
- 20. Referring to claim 10, Christopher further discloses wherein the surface of the sheet or mat is provided with at least one line corresponding to a line that is to be found on a standard field or court for the sport or game concerned, where at least some of the zones border said at least one line (see page 3, lines 8-18).
- 21. Referring to claim 11, Christopher further discloses wherein said at least one line located or provided on said surface, contains line zones having pressure sensitive switches, preferably with said line zones arranged in the longitudinal direction of said at least one line (see page 3, lines 8-18).
- 22. <u>Referring to claim 12</u>, Christopher further discloses wherein the second pattern of electrically conductive elements is applied on an upward surface of an inner support layer joined with the inner layer (see page 3, lines 20-30)

- 23. Referring to claim 13, Christopher further discloses intended for use with a moveable object, in particular in the form of a ball, having a given size, wherein said positions of the pressure sensitive switches are mutually spaced in such a way that the ball or the object by impact or pressure will activate at least two pressure sensitive switches (see page 6, lines 12-19).
- 24. Referring to claim 14, Christopher further discloses intended for use with a moveable object, in particular in the form of a ball, having a given size, wherein said positions of the pressure sensitive switches are mutually spaced in such a way that the ball or the object by impact or pressure will activate at least two pressure sensitive switches (see page 6, lines 12-19).
- 25. Referring to claim 15, Christopher further discloses wherein said first and/or said second pattern of electrically conductive elements are/is formed by printed circuit elements (see page 3, lines 20-30).
- 26. Referring to claim 16, Christopher further discloses wherein said first and/or said second pattern of electrically conductive elements are/is formed by printed circuit elements (see page 2, lines 21-27).
- 27. <u>Referring to claim 17</u>, Christopher further discloses wherein said first and/or said second pattern of electrically conductive elements are/is formed by printed circuit elements (see page 5, lines 7-11).

28. <u>Referring to claim 18</u>, Christopher further discloses wherein the outer layer of the sheet or

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mat is further provided with a hollow and flexible, dome-shaped protrusion at each position of

the pressure sensitive switches, each zone comprising a number of protrusions (see page 6, lines

12-19).

29. Referring to claim 19, Christopher further discloses wherein the outer layer of the sheet or

mat is further provided with a hollow and flexible, dome-shaped protrusion at each position of

the pressure sensitive switches, each zone comprising a number of protrusions (see page 2, lines

14-19).

30. Referring to claim 20, Christopher further discloses wherein the outer layer of the sheet or

mat is further provided with a hollow and flexible, dome-shaped protrusion at each position of

the pressure sensitive switches, each zone comprising a number of protrusions (see page 2, lines

14-19).

31. Referring to claim 21, Christopher further discloses wherein the outer layer of the sheet or

mat is further provided with a hollow and flexible, dome-shaped protrusion at each position of

the pressure sensitive switches, each zone comprising a number of protrusions (see page 2, lines

14-19).

32. Referring to claim 22, Christopher further discloses wherein said hollow and flexible

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protrusions are further provided with spring elements, preferably of metal, for obtaining a

sufficient degree of elastic deformation when activated by said impact or pressure (see page 3,

lines 8-18).

33.

34. Referring to claim 23, Christopher further discloses wherein the shape of said protrusions

is substantially circular as seen in plan view (see abstract).

35. Referring to claim 24, Christopher further discloses wherein the shape of said protrusions

is substantially circular as seen in plan view (see fig. 2).

36. Referring to claim 25, Christopher further discloses wherein the surface of the sheet or

mat is provided with at least one line corresponding to a line that is to be found on a standard

field or court for the sport or game concerned, where at least some of the zones border said at

least one line (see fig. 2; page 3, lines 20-30).

37. Referring to claim 26, Christopher further discloses wherein the surface of the sheet or

mat is provided with at least one line corresponding to a line that is to be found on a standard

field or court for the sport or game concerned, where at least some of the zones border said at

least one line (see fig. 2; page 3, lines 20-30).

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38. Referring to claim 27, Christopher further discloses wherein the surface of the sheet or

mat is provided with at least one line corresponding to a line that is to be found on a standard

field or court for the sport or game concerned, where at least some of the zones border said at

least one line (see abstract; page 3, lines 8-18).

39. Referring to claim 28, Christopher further discloses wherein the surface of the sheet or

mat is provided with at least one line corresponding to a line that is to be found on a standard

field or court for the sport or game concerned, where at least some of the zones border said at

least one line (see abstract; page 3, lines 8-18).

40. Referring to claim 29, Christopher further discloses wherein the surface of the sheet or

mat is provided with at least one line corresponding to a line that is to be found on a standard

field or court for the sport or game concerned, where at least some of the zones border said at

least one line (see abstract; page 3, lines 8-18).

41. Referring to claim 30, Christopher further discloses wherein the surface of the sheet or

mat is provided with at least one line corresponding to a line that is to be found on a standard

field or court for the sport or game concerned, where at least some of the zones border said at

least one line (see fig. 2; page 3, lines 20-30).

42. Referring to claim 31, Claim is objected.

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43. Referring to claim 32, Christopher further discloses wherein the surface of the sheet or mat is provided with at least one line corresponding to a line that is to be found on a standard field or court for the sport or game concerned, where at least some of the zones border said at least one line (see fig. 2; page 3, lines 20-30).

Response to Arguments

- 44. Applicant's arguments filed on July 14, 2010 have been fully considered but they are not persuasive.
- 45. As per claims 1-32, Applicant argues "Christopher does not disclose the underneath side of the outer layer of the sheet or mat is provided with a first pattern of electrically conductive elements at least at the positions of the pressure sensitive switches, the upper side of the inner layer of said sheet or mat is provided with a second pattern of electrically conductive elements at least at the positions of the pressure sensitive switches, the first pattern of electrically conductive elements and the second pattern of electrically conductive elements are arranged so as to enable temporary contact to be established at the positions of the pressure sensitive switches, an insulation layer between said outer and inner layers is provided with cavities or holes at the positions of the pressure sensitive switches for establishing temporary contact therein, and from each cavity or hole at least one opening directed sideways for air movement during said impact or pressure activation and Kustanovich does not disclose at least one of the first and second patterns of electrically conductive elements is subdivided into a number of individual zones where each zone comprises a plurality of said pressure sensitive switches and the electronic circuits have separate connections to each of said individual zones" (response pages 10-12).

Christopher teaches the underneath side of the outer layer of the sheet or mat is provided 46. with a first pattern of electrically conductive elements at least at the positions of the pressure sensitive switches (see abstract; page 3, lines 8-18), the upper side of the inner layer of said sheet or mat is provided with a second pattern of electrically conductive elements at least at the positions of the pressure sensitive switches (see fig. 2; page 3, lines 20-30), the first pattern of electrically conductive elements and the second pattern of electrically conductive elements are arranged so as to enable temporary contact to be established at the positions of the pressure sensitive switches (see page 2, lines 14-19), an insulation layer between said outer and inner layers is provided with cavities or holes at the positions of the pressure sensitive switches for establishing temporary contact therein, and from each cavity or hole at least one opening directed sideways for air movement during said impact or pressure activation (see abstract; page 3, lines 8-18) and Kustanovich discloses at least one of the first and second patterns of electrically conductive elements is subdivided into a number of individual zones where each zone comprises a plurality of said pressure sensitive switches and the electronic circuits have separate connections to each of said individual zones (see col. 1, lines 21-42; col. 3, lines 29-42).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the

THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shahid Kamal whose telephone number is (571) 270-3272. The examiner can normally be reached on MONDAY through THURSDAY between the hours of 8:30 AM and 7 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on (571) 272-4690. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300 for Regular/After Final Actions and 571-273-6714 for Non-Official/Draft.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov.

Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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09/30/2010

/Pierre E. Elisca/

Primary Examiner, Art Unit 3714